



Former Nebraska Ordnance Plant, Mead, Nebraska

Operable Unit 2 - Groundwater

PURPOSE: The following presents USACE Kansas City District (KCD) responses to a number of items, provided by the RAB Community Co-Chair to KCD on March 29, 2006, that were identified as being of importance and interest to the Mead Community:

ITEM 1 • Update on remedial design for and activities at Load Line 1, including documentation of performance criteria / treatment standards

KCD Response: Performance criteria and treatment standards are defined in the Draft Final Load Line 1 (LL1) Containment System Remedial Design, dated July 2005. Based on data collected in January - March 2006, the effluent water & air are in compliance with defined performance criteria and treatment standards. Performance monitoring results for the LL1 plant from January 1, 2006 through March 31, 2006 are posted on the project website.

ITEM 2 • Status report on EW-12 and EW-13

KCD Response: EW-12 is installed and began operating in February 2006. EW-12 is extracting more water than was originally expected. EW-13 is installed, but is not currently operating. EW-13 does not extract as much water as was originally anticipated. KCD is evaluating the capture zone of EW-12 and will determine if EW-13 is needed to contain the Load Line 1 plume. Five sampling events have been conducted which include sampling the EW-12 influent water, effluent water and effluent air. Performance monitoring results for the LL1 plant from January 1, 2006 through March 31, 2006 are posted on the project website.

ITEM 3 • Update on phase 2 of the Geoprobe investigation in the area of MW-85

KCD Response: Phase 2 of the MW-85 investigation focuses on defining the eastern edge of the groundwater plume. This work began in March 2006. It is anticipated that work will be completed in mid-April 2006. Data from this investigation will be used to locate wells on the eastern portion of the site and provide a baseline of information prior to operation of the Metropolitan Utilities District (M.U.D.) Platte West well field. These wells are currently scheduled to be installed in the Fall 2006 after harvest activities.

ITEM 4 • Update on the work toward defining the eastern edge of the plume

KCD Response: The Direct Push Investigation (Eastern Side) began in March 2006. It is anticipated that work will be completed in mid-April 2006. Data from this investigation will be used to locate wells on the eastern portion of the site. These wells are currently scheduled to be installed in the Fall 2006 after harvest activities.

ITEM 5 • Update on the location, installation, and operation of the approximately 100 new monitoring wells on the eastern and southern portions of the site.

KCD Response: Real estate actions are in progress for those wells where the proposed locations are known. Additionally, USACE is conducting a direct-push investigation to define the eastern edge of the plume. Following this investigation, well locations will be selected for that area of the site. Other locations for new monitoring wells are currently being evaluated as part of the containment evaluation. It is currently anticipated that new wells will be installed following the Fall 2006 harvest activities.

ITEM 6 • Status of communications with MUD regarding the need for more monitoring wells in different locations and its agreement to pay for the above-mentioned new wells as required by MUD's 404 permit.

KCD Response: The Corps of Engineers is currently in discussions with the Metropolitan Utilities District (M.U.D.) to develop a monitoring well network in between the eastern edge of the plume and the M.U.D. well field. M.U.D. has a permit requirement to monitor any potential plume migration to the east and its impact resulting from well field pumping operations. KCD has an obligation to monitor the eastern edge of the plume to detect any movement regardless of the cause. Therefore, each entity will pay for its own part of the monitoring network. The monitoring efforts between KCD and M.U.D. will be coordinated and complementary.



Former Nebraska Ordnance Plant, Mead, Nebraska Operable Unit 2 - Groundwater

ITEM 7 • Provision of water to anyone with contamination related to the DoD's acknowledged contaminants of concern

KCD Response: The following is taken from Fact Sheet #01-2004 published during the September 29, 2004 Public Availability Session, and still applies to this project:

- If your well has a detection of VOCs and/or explosives above the action level [defined in the OU2 Record of Decision], then you will be provided with bottled water and your well will be sampled again during the next sampling event so that the detection can be confirmed. If the detection above the action level is confirmed a second time, then your well will be added to our regular (quarterly) sampling schedule. USACE is legally required to provide alternate water supply (such as bottled water or water treatment) for wells that exceed the action levels for Army COCs (defined in the 1997 Record of Decision) and USACE will honor this requirement.

ITEM 8 • Update regarding the needed testing for dioxane and perchlorate

KCD Response: In March 2006, EPA collected split samples concurrent with the KCD GMP sampling. The EPA analyzed a number of those split samples for 1,4-dioxane and perchlorate. Results are not yet available.

ITEM 9 • Update regarding the dispute resolution process regarding frequency of testing, for example, MW-13, MW-38, MW-46, and MW-62

KCD Response: It is assumed that this question relates to the 2006 Groundwater Monitoring Program (GMP) Sampling Plan. The 2006 GMP Sampling Plan has been approved by EPA & NDEQ. The 2006 plan is currently posted on the project website. In 2006, MW-13 will not be sampled, MW-38 will be sampled annually (one time), and MWs-46 & 62 will be sampled semi-annually (two times). The GMP as a whole is reevaluated, at a minimum, on an annual basis. Sampling of these specific wells will be reevaluated again in 2007, unless data are received to warrant evaluation prior to 2007.

ITEM 10 • Status of a monitoring well south of Silver Creek as requested by DEQ

KCD Response: Based on data received from the initial operations of the new Load Line 1 (LL1) Treatment facility and EW-12, KCD will evaluate the need for a monitoring well south of Silver Creek. It is anticipated that if a well is deemed necessary in this location, based on the LL1 data, it would be installed in the Fall 2006 after harvest activities.

ITEM 11 • Status report on the amount of contaminated water treated, the quantities of each contaminant removed, and the corresponding percentage of the total for each contaminant

KCD Response:

Main Treatment Plant since startup (February 2002 - March 2006)

Amount treated – 4,634,438,000 gallons	Amount of TCE recovered – 164.28 lbs
Detectable contaminants – TCE and RDX	Amount of RDX removed – 69.51 lbs

LL1 Treatment Plant since startup (January 2006 - March 2006)

Amount treated – 31,442,200 gallons	Amount of TCE recovered – 3.37 lbs
Detectable contaminants – TCE	

ITEM 12 • Update on the site management plan

KCD Response: The Final Site Management Plan was revised and resubmitted to EPA & NDEQ on March 13, 2006.